

General Environmental Incident Summary

Incident: 4018 **Date/Time Notice:** 2/8/2016 1520 **DEM Incident No:**
Responsible Party: Renewable Resources, LLC
Date Incident: 2/7/2016 **Time Incident:** 1700 **Duration:** 3 hours
County: Dunn **Twp:** 146 **Rng:** 95 **Sec:** 32 **Qtr:** NE NW
Lat: 47.42861 **Long:** -102.81340 **Method:** Interpolation from map
Location Description: 10658 1st Street Northwest
Killdeer, North Dakota 58640
Submitted By: Steve Menden **Affiliation:** Wenck Associates
Address: 1800 Pioneer Creek Center
PO 249
City: Maple Plain **State:** MN **Zip:** 55359

Received By:

Contact Person: Shawn Kluver
P.O. Box 657
Killdeer, ND 58640

Distance Nearest Occupied Building: 0.5 Miles **Release Contained:** Yes
Type of Incident: Explosion, Fire
Description of Released Contaminant: Crude Oil
Volume Spilled: 10.00 barrels **Ag Related:** No
EPA Extremely Hazardous Substance: No **Reported to NRC:** Unknown

Cause of Incident:

Facility personnel were performing hot work (welding) on empty 400-bbl tank and fumes ignited causing an explosion and fire inside the building. A portable propane tank heater was also present in the building that may have been leaking that added fuel to the explosion. A hydrovac truck, located inside the Thermal Treatment Building, started leaking after heat from the fire melted the sight tube and caused it to release approximately 10 barrels of crude oil. It is estimated that most of the crude oil was burned up in the fire. Some residual crude was sprayed outside during the explosion, as well as from foam/water suppression activities from the West Dunn Co Fire Department.

Risk Evaluation:

The post-explosion condition of the building does pose some minor health hazards to cleanup workers, but all personnel are wearing appropriate PPE.

of Fatalities: 0 **# of Injuries:** 0 **Affected Medium:** 05 - air and soil

Potential Environmental Impacts:

There were minor impacts to the soil from the building explosion spraying crude oil and from fire suppression water/foam that leaked from the building which carried hydrocarbons on top of it. The ground is frozen and any visible contamination was contained and scraped from the ground by facility personnel. This will limit any further impacts to the environment or human health. All contamination will be cleaned by facility personnel and placed within the on-site waste storage building(s).

Action Taken or Planned:

After the explosion the building was immediately evacuated and the fire was suppressed by the West Dunn Co Fire Department. Residuals were cleaned up from within the building and any visible oil that may have escaped the building with facility equipment. There is no immediately risk to human health or the environment post the explosion/fire.

Wastes Disposal Location: All waste residuals will be cleaned up from within the building and approx. 10 cubic yards of impacted soil was scraped off the ground and placed within the on-site waste storage building(s). Water from fire fighting operations was sucked up with facility equipment. Non salvageable materials will be taken to a landfill for disposal. All scrap metal will be removed from the site and recycled by a contractor.

Agencies Involved: State Fire Marshal, Local Fire Department, NDDH Div. of Waste Mgmt.

Updates

Date: 2/8/2016 **Status:** Reviewed - Assigned to NDDoH Division **Author:** O'Gorman, Brian

Updated Volume:

Notes:

According to the report, 10 barrels of crude oil were released during a fire at the company's location. Company is permitted through the Division of Waste Management (WM). Incident forwarded to WM for further followup.

Date: 2/12/2016 **Status:** Reviewed - Assigned to NDDoH Division **Author:** O'Gorman, Brian

Updated Volume:

Notes:

NDDoH Division of Waste Management staff members Skye Fasching and Diana Trussell inspected the site on 2/9/16. Notes from the visit were added to the folder. Confirmation samples and progression of the work will be forwarded to the division. More followup needed.

Date: 2/18/2016 **Status:** Reviewed - Assigned to NDDoH Division **Author:** O'Gorman, Brian

Updated Volume:

Notes:

Received an email from Skye Fasching of Division of Waste Management with a spill response report from the environmental consultant for Renewable Resources. According to the report, impacts from the release were removed and placed into the Renewable Resources facility for thermal soil remediation. Photo-ionization readings in the report showed volatile organic compound (VOC) levels below 100 parts per million (ppm) in the areas where the soil was removed. The report also indicated there are four monitoring wells sampled quarterly, and results are provided to the Division of Waste Management. Report was added to the folder with no further followup needed at this time. Followup will also be dependent upon quarterly monitoring well sample results. Waste Management continues with oversight.

Updated Volume:

Notes:

Division of Waste Management will continue oversight of the facilities. According to the spill response report dated February 2016, the field screening process showed no further contamination of soils after excavation of impacted areas. No further follow-up for this incident will be needed at this time. Division of Waste Management has reviewed the July groundwater monitoring report and will continue to monitor the location with inspections. The groundwater monitoring reports will be provided to the NDDoH by the company's third party environmental consultant.